

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P646906

Luminaire Tested: **GALN-SA4C-835-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P646906
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-835-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14402.5 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

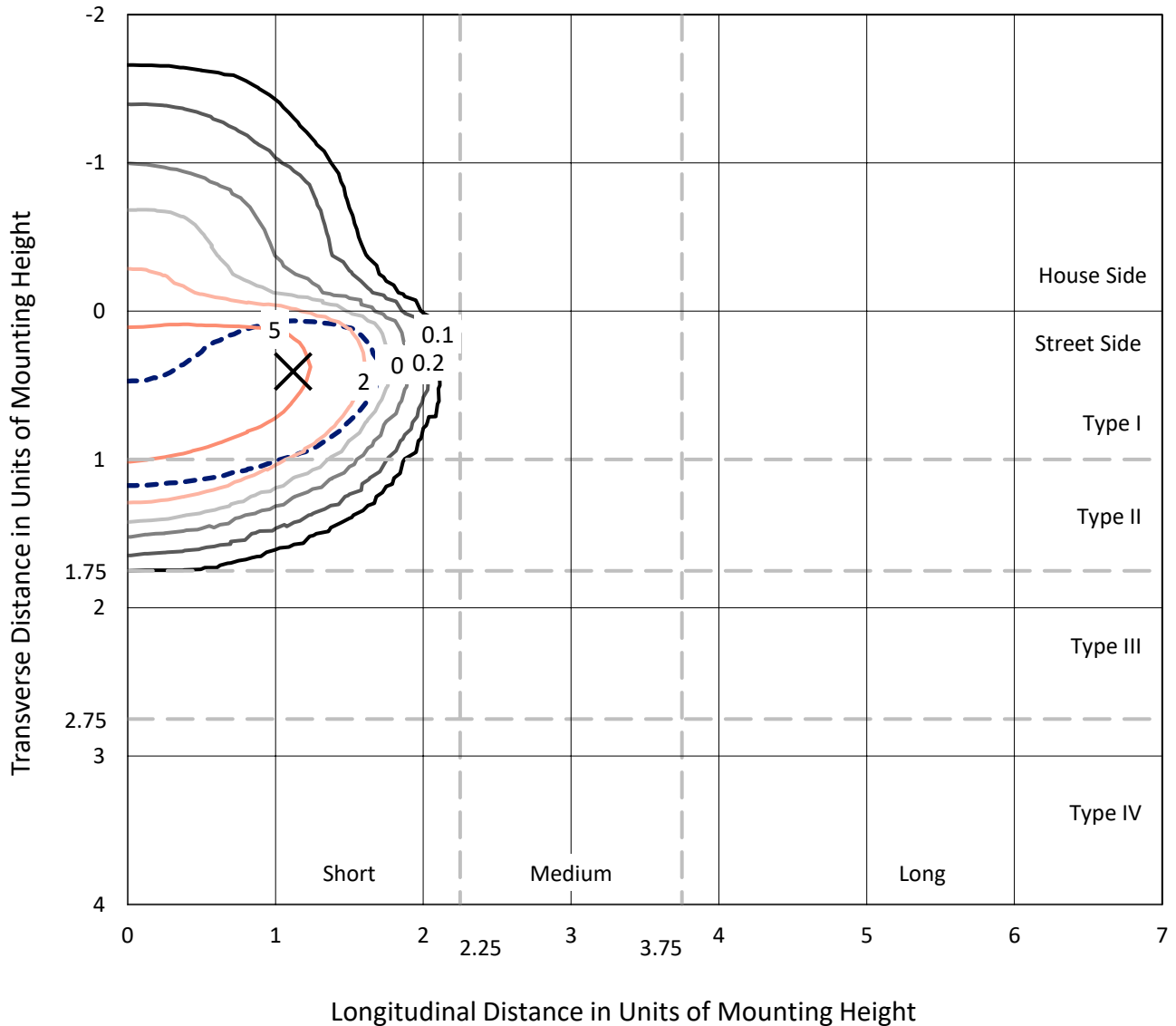
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

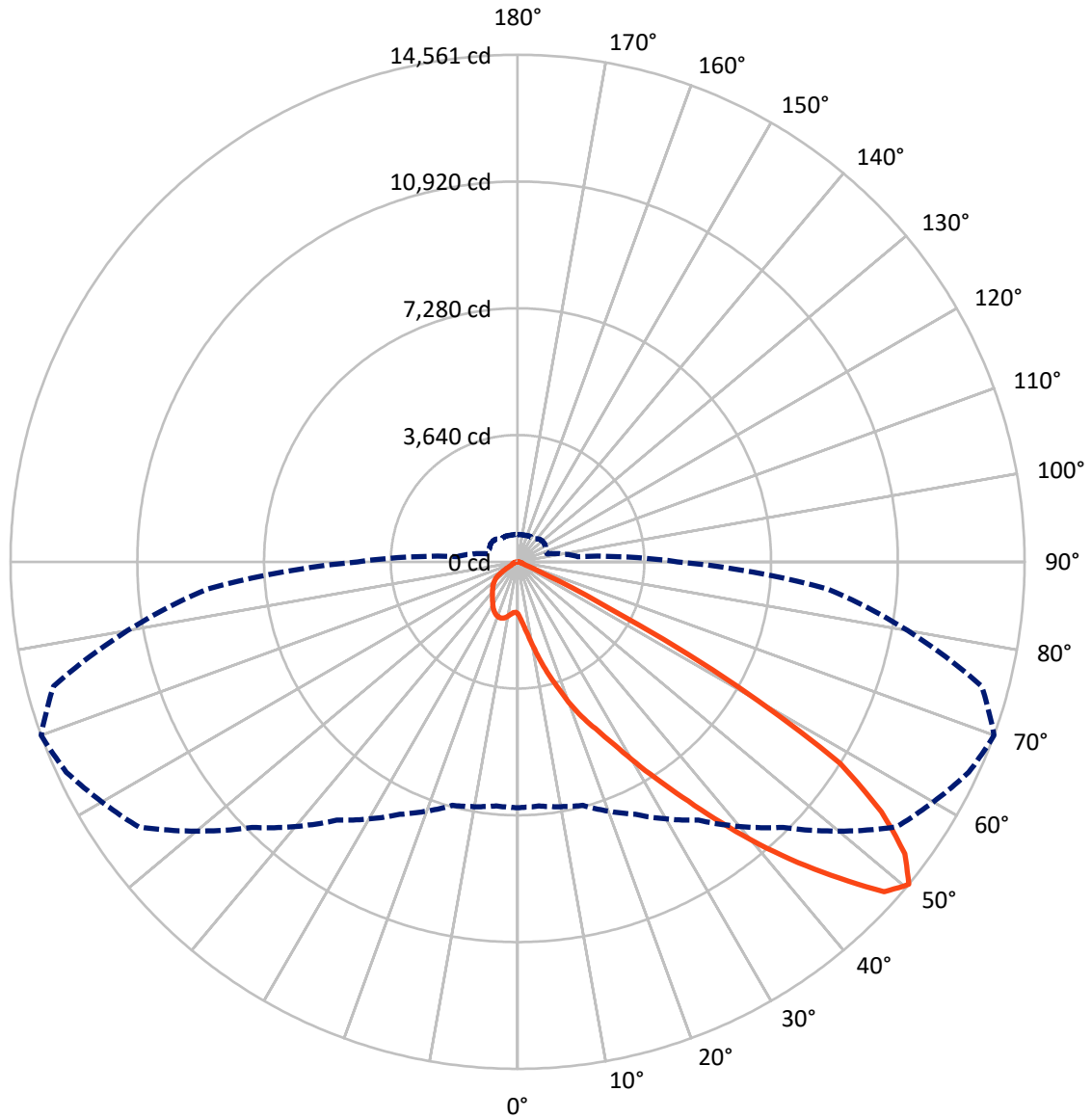
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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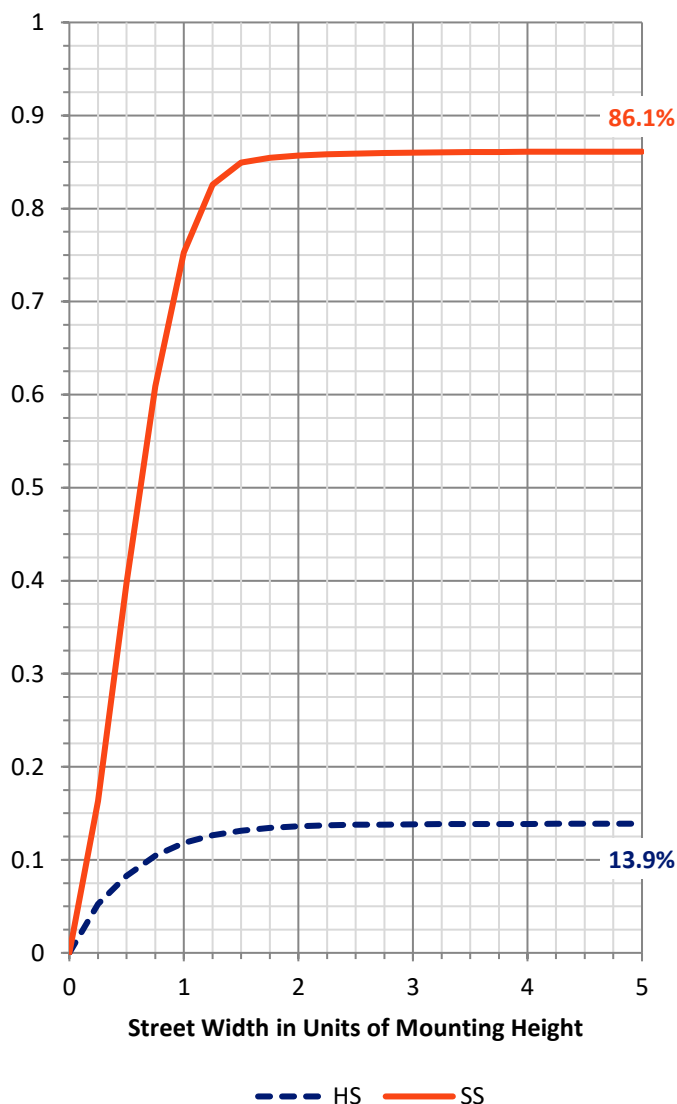
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2011.4	0.0	2011.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	12391.1	0.0	12391.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	14402.5	0.0	14402.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.0	1.3
10°-20°	839.1	5.8
20°-30°	1760.4	12.2
30°-40°	3034.3	21.1
40°-50°	4434.6	30.8
50°-60°	3453.8	24.0
60°-70°	585.2	4.1
70°-80°	80.4	0.6
80°-90°	20.8	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	14402.5	100.0
0°-180°	14402.5	100.0

Coefficient of Utilization



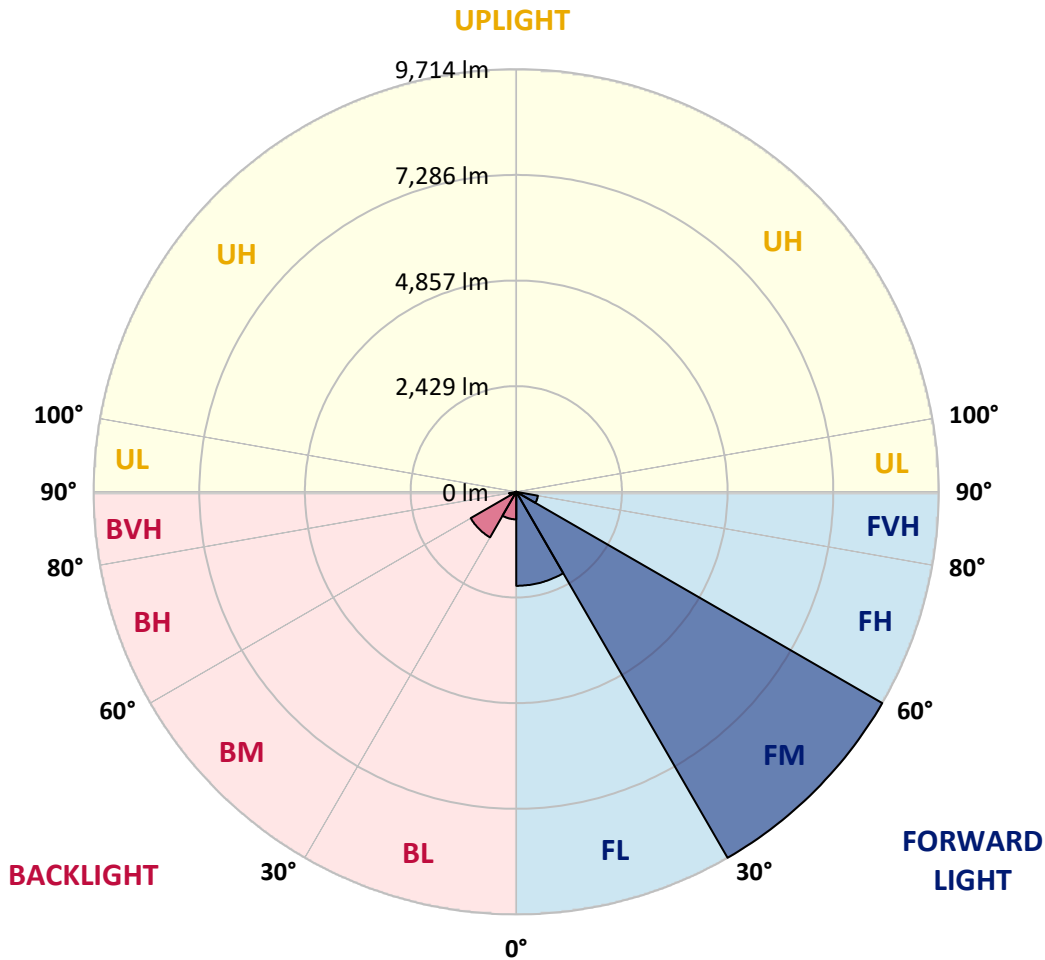
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2160.5	15.0			
FM	(30°-60°)	9714.2	67.4			
FH	(60°-80°)	506.7	3.5			G0/660
FVH	(80°-90°)	9.6	0.1			G0/10
BL	(0°-30°)	632.9	4.4	B2/1000		
BM	(30°-60°)	1208.4	8.4	B2/2500		
BH	(60°-80°)	158.9	1.1	B1/500		G1/500
BVH	(80°-90°)	11.2	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1491.8	1491.8	1491.8	1491.8	1491.8	1491.8	1491.8	1491.8	1491.8	1491.8	1491.8
2.5°	1953.6	1939.3	1908.6	1851.7	1828.1	1771.2	1738.1	1674.1	1633.9	1588.9	1539.1
5°	2751.5	2678.2	2633.2	2569.3	2382.2	2266.2	2074.3	1910.9	1835.2	1752.3	1638.7
7.5°	3575.6	3528.3	3466.7	3329.3	3201.5	2960.0	2630.8	2270.9	2116.9	1974.9	1749.9
10°	4257.6	4125.0	4117.9	4016.1	3876.3	3587.5	3192.0	2744.5	2469.8	2261.4	1908.6
12.5°	4733.5	4612.8	4667.2	4655.4	4525.2	4260.0	3803.0	3210.9	2924.4	2600.0	2072.0
15°	5166.9	5117.1	5100.6	5086.4	5034.3	4837.8	4428.1	3779.2	3364.9	2974.1	2256.7
17.5°	5590.8	5462.9	5524.5	5536.3	5531.6	5354.0	4970.3	4319.2	3831.4	3369.6	2450.9
20°	5967.2	5979.1	5896.2	5879.6	5865.5	5858.3	5484.2	4854.3	4404.4	3784.0	2704.2
22.5°	6450.4	6367.4	6440.9	6393.5	6301.1	6244.3	5957.8	5327.9	4901.7	4283.6	2962.3
25°	7021.0	7087.3	6914.4	6895.5	6793.7	6597.2	6339.0	5858.3	5380.0	4747.8	3241.8
27.5°	7724.3	7608.3	7563.2	7459.1	7274.4	7191.5	6888.4	6405.3	5957.8	5235.5	3511.7
30°	8328.1	8297.4	8072.4	7949.3	7788.2	7785.8	7362.0	7146.5	6710.8	6000.4	3883.4
32.5°	8820.7	8685.7	8602.8	8517.6	8387.3	8422.8	8065.3	7951.6	7513.5	6710.8	4321.5
35°	9149.8	9052.7	9003.0	8872.7	8834.9	8993.5	8844.3	8797.0	8437.1	7710.0	4835.3
37.5°	9254.0	9284.8	9275.3	9111.9	9192.4	9621.0	9812.9	9689.7	9500.3	8763.8	5391.8
40°	9346.4	9367.7	9320.3	9512.1	9741.8	10229.6	10923.4	10719.7	10648.7	9831.7	6166.2
42.5°	9398.4	9381.8	9381.8	9713.3	10061.5	11041.8	11996.1	11861.1	11806.6	10968.4	7061.3
45°	9173.5	9012.5	9185.3	9635.2	10336.1	11442.0	12853.3	13040.4	12962.3	12320.5	8107.9
47.5°	8332.8	8432.3	8529.4	9130.9	10002.3	11318.9	13379.0	14015.9	14160.4	13457.1	8794.6
50°	7061.3	7040.0	7241.3	7999.0	9057.4	10788.4	13277.2	14297.7	14560.6	13798.1	8939.0
52.5°	5136.1	5292.4	5510.3	6263.3	7518.3	9415.0	11962.9	13570.8	13921.3	13379.0	8844.3
55°	2990.7	2817.9	3308.0	3945.0	5129.0	7101.5	10113.5	12029.2	12678.1	12616.5	8366.0
57.5°	1198.2	1160.3	1328.4	1790.2	2675.8	4402.0	7354.9	9883.9	10923.4	11555.7	7352.5
60°	525.7	513.9	603.8	729.4	1094.0	2029.4	4023.1	6147.3	7231.8	8074.8	5060.3
62.5°	378.9	374.1	419.1	464.1	577.8	883.2	1690.7	2476.9	3087.8	3729.5	2266.2
65°	305.4	317.3	348.1	371.8	426.3	490.2	596.7	689.0	845.3	876.2	499.6
67.5°	248.6	258.1	286.5	312.6	322.0	265.2	274.7	241.6	241.6	215.5	172.9
70°	182.4	184.7	217.8	248.6	198.9	106.6	187.1	187.1	168.1	161.0	146.8
72.5°	135.0	137.3	163.4	153.9	78.1	66.3	137.3	151.5	137.3	130.2	118.4
75°	99.4	101.8	85.3	35.5	33.1	42.6	80.5	104.2	99.4	97.1	90.0
77.5°	18.9	14.2	11.8	16.6	23.6	35.5	52.1	64.0	66.3	71.0	66.3
80°	2.3	2.3	7.1	14.2	26.1	37.9	54.5	61.5	64.0	66.3	61.5
82.5°	0.0	2.3	7.1	14.2	26.1	35.5	47.4	54.5	59.2	61.5	59.2
85°	0.0	2.3	4.7	11.8	21.3	26.1	23.6	16.6	14.2	16.6	11.8
87.5°	0.0	0.0	2.3	2.3	4.7	4.7	4.7	4.7	4.7	4.7	4.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1491.8	1491.8	1491.8	1491.8	1491.8	1491.8	1491.8	1491.8	1491.8	1491.8	1491.8
2.5°	1510.7	1501.3	1468.1	1432.7	1401.8	1416.1	1401.8	1390.0	1394.8	1390.0	1385.3
5°	1593.6	1551.0	1479.9	1449.2	1423.2	1420.8	1413.7	1411.3	1413.7	1413.7	1392.3
7.5°	1671.8	1603.1	1527.3	1494.2	1463.4	1465.8	1449.2	1449.2	1446.8	1435.0	1430.2
10°	1790.2	1697.9	1600.8	1541.6	1503.7	1496.5	1479.9	1463.4	1463.4	1463.4	1439.7
12.5°	1920.4	1804.4	1671.8	1603.1	1558.1	1522.6	1496.5	1491.8	1465.8	1461.0	1449.2
15°	2034.1	1887.3	1719.2	1624.4	1567.6	1520.2	1479.9	1454.0	1442.1	1435.0	1425.5
17.5°	2145.3	1958.3	1745.2	1624.4	1562.9	1508.4	1465.8	1442.1	1413.7	1418.4	1399.5
20°	2294.6	2034.1	1752.3	1593.6	1517.8	1465.8	1408.9	1397.1	1380.5	1366.3	1371.0
22.5°	2439.0	2088.6	1731.0	1555.7	1446.8	1385.3	1356.9	1342.6	1335.6	1323.7	1307.1
25°	2569.3	2147.8	1697.9	1487.1	1371.0	1326.1	1300.0	1297.7	1281.1	1281.1	1250.3
27.5°	2701.8	2169.1	1641.0	1406.6	1304.7	1278.7	1266.9	1262.1	1255.0	1238.5	1217.1
30°	2853.4	2176.2	1558.1	1323.7	1245.5	1217.1	1233.7	1245.5	1214.7	1184.0	1193.4
32.5°	2978.9	2159.6	1458.7	1245.5	1202.9	1188.8	1221.9	1233.7	1198.2	1165.0	1148.4
35°	3130.4	2119.3	1361.6	1184.0	1160.3	1188.8	1217.1	1217.1	1146.1	1105.8	1096.4
37.5°	3360.2	2074.3	1271.6	1131.9	1115.3	1174.5	1212.4	1186.3	1075.1	1025.3	1013.5
40°	3606.4	2045.9	1184.0	1079.8	1091.7	1150.9	1172.2	1091.7	978.0	947.2	937.7
42.5°	3963.9	1989.1	1105.8	1034.8	1070.3	1117.7	1117.7	973.3	930.6	914.0	911.6
45°	4409.2	1948.8	1037.2	996.9	1039.5	1051.4	1013.5	911.6	880.9	876.2	878.5
47.5°	4627.0	1870.7	966.1	951.9	982.7	985.1	885.7	861.9	835.9	828.8	824.0
50°	4593.9	1731.0	873.7	892.7	935.4	911.6	807.5	812.2	788.6	786.1	774.3
52.5°	4361.8	1510.7	781.4	826.5	873.7	805.1	743.5	738.8	738.8	708.0	696.2
55°	3866.8	1217.1	670.2	726.9	783.8	677.2	660.7	655.9	644.1	615.7	608.5
57.5°	3061.8	892.7	504.4	566.0	665.4	575.4	573.1	551.7	520.9	499.6	499.6
60°	1820.9	513.9	317.3	345.7	440.4	466.5	518.6	509.1	457.0	423.8	414.4
62.5°	831.2	265.2	201.3	206.0	236.8	303.1	407.3	471.2	397.8	341.0	336.2
65°	279.5	196.5	165.8	158.6	163.4	182.4	243.9	333.9	317.3	262.9	253.4
67.5°	170.5	175.2	156.3	144.5	144.5	142.1	139.7	151.5	187.1	182.4	184.7
70°	146.8	161.0	144.5	130.2	125.5	118.4	99.4	82.8	71.0	82.8	87.6
72.5°	118.4	127.9	123.2	111.3	99.4	90.0	71.0	54.5	40.2	35.5	35.5
75°	87.6	94.7	99.4	85.3	75.8	64.0	52.1	35.5	21.3	14.2	14.2
77.5°	64.0	71.0	73.4	66.3	56.8	45.0	33.1	23.6	11.8	4.7	4.7
80°	54.5	64.0	71.0	66.3	59.2	42.6	30.8	16.6	9.5	2.3	2.3
82.5°	52.1	64.0	71.0	64.0	56.8	40.2	30.8	18.9	7.1	2.3	2.3
85°	11.8	16.6	21.3	26.1	30.8	30.8	23.6	14.2	7.1	2.3	2.3
87.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	2.3	2.3	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)